

WHAT IS CLAIMED IS:

1. A method for producing an ink jet recording head, comprising steps of:

forming, on a substrate, a solid layer composed
5 of soluble resin and having a pattern for
constituting a liquid flow path;

forming an inorganic film by low temperature
film formation so as to cover said solid layer;

forming a layer of a head forming material so
10 as to cover said inorganic film;

removing a part of said inorganic film for
forming a discharge port; and

removing said solid film thereby forming a
liquid flow path communicating with the discharge
15 port.

2. A method according to claim 1, wherein said
low temperature film formation is executed by
sputtering, CVD or vapor deposition.

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3. A method according to claim 1, wherein said
inorganic film is composed of SiN, SiO₂, Al₂O₃, Ti, Ta,
Cu, Ag or ITO.

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4. A method according to claim 1, wherein the
layer of said head forming material has ink repellent
property.

5. A method according to claim 4, wherein the layer of said head forming material is composed of ink-repellent settable resin.

5 6. A method according to claim 1, wherein the layer of said head forming material is composed of an inorganic material.

10 7. A method according to claim 1, wherein said head is of an edge shooter type in which said discharge port is provided on an end face of said substrate.

15 8. A method according to claim 1, wherein said inorganic film removing step is executed by cutting said inorganic film together with said substrate.

20 9. A method according to claim 1, wherein said head is of a side shooter type in which said discharge port is provided toward above said substrate.

25 10. A method according to claim 1, wherein the layer of said head forming material is composed of resin and said inorganic film removing step is executed by dry etching.

11. A method according to claim 9, wherein said solid layer is provided with a discharge port pattern on the liquid flow path pattern.

5 12. An ink jet recording head which comprises being produced by an ink jet recording head producing method according to any of claims 1 to 11.

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